

BRUHAT BENGALURU MAHANAGARA PALIKE, DASARAHALLI ZONE

Name of Work :- Drilling Borewell in Ward No-12, in Shettyhalli Sub Division.

Est Cost Rs 40.00 Lakhs

SL NO	Description	Unit	Nos	L	B	D	Qty	Rate	Amount
1	2	3	4	6	7	8	9	10	11
1	Geophysical investigation of site for sinking bore well for supply drinking water to the habitation either through the Hand Pump. MWS or PWSS by vertical electrical sounding by adopting Venner or schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing ground infecundity its quality & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top in consolidated formation of proper scattng of casing pipe ,depth of drilling required to cover full depth of auquifer propopsed to be tapped Proboabale yield and other information required including transporetation technical personal and labour etc PRE SR 2011-12 It no 9.4 page 42).								
		Each	5				5	2065.00	10325.00
2	Sinking of borewell of 165mm dia clear using super fast hydraulic rig of capacity 250 PSIG and above 900 CMF and above in all strata including over burden upto 20m, fixing of casing pipes, collars and cap with necessary welding, cutting and treading including transportation of rig and supporting vehicles, screw charges and cost of consumables, etc.. complete including yield testing at the final depth with a minimum working of compressor for one hour.(excluding cost of casing pipes, collars, caps etc..)(RDED SR 2010-11 P-36, I-9.1)								
	a) 0.00 to 50.00 mts	Rmt	5	50.00			250.00	315.18	78795.00
	b) 50.00 to 100.00 mts	Rmt	5	50.00			250.00	412.00	103000.00
	c) 100.00 to 150.00 mts	Rmt	5	50.00			250.00	458.00	114500.00
	d) 150.00 to 200.00 mts	Rmt	5	50.00			250.00	484.10	121025.00
	e) 200.00 to 250.00 mts	Rmt	5	50.00			250.00	560.32	140080.00
	f) 250.00 to 300.00 mts	Rmt	5	50.00			250.00	620.32	155080.00
3	Supply of ISI mark 175 mm nominal bore,plain end steel casing pipe grade of steel fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, eletric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with socket conforming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10Kg/mtr (inclusive of all taxes and duties). Prices including collar medium duty.(RDED SR 2010-11 P-ii, I-53.a)								
	a) Casing pipe	Rmt	5	69.00			345.00	1325.00	457125.00
4	Supplying of 175mm MS cap((RDED SR 2010-11 P-ii, I-54)								
		Each	5				5.00	100.00	500.00
5	Supply of 175mm MS Collar. (RDED SR 2010-11 P-ii, I.55)								
		Each	5				5.00	150.00	750.00
6	Provding 200mm dia PVC pipe 10kg/cm2 SE PRED PAGE NO 15 IT 3.4.3 G								
		Nos	5	12.00			60.00	1721.13	103267.80

7	Supply and delivery of submersible pump sets suitable for borewell of 165mm dia with specified duty conditions as detailed below and satisfying performance characteristics for pump and motor specified in BIS with ISI mark with a minimum efficiency of 42% pump shall confirm to IS 8034/2002 and motor conforming to IS 9283/1995 with ISI Certification (PWD SR 2015-16, P-XXXX, It.30)								
	12.5HP 24stage Sub mersible pump set								
	No	5				5.00	69334.60	346673.00	
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper conductor cofirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of Group A 3C x 6.0 Sq.mm (PWD Ele SR 2014-15, P-12 It.2.10)								
	Mtr	5	580.00			2900.00	151.00	437900.00	
9	Errection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair of supporting clams, borewell cap, cable clips with bolts, nuts, valve gauges etc., involved in the job. (Necessary G.I.Pipe and specials will be supplied by the board at the site free of cost)(CE (M) BWSSB, Letter No.BWSSB/CE(M)ACE(M)-II/TA-8/9194/2008-09 dated 21/1/09)								
	No	5				5.00	1710.00	8550.00	
10	Providing and fixing in position 50mm Nominal bore non- return valve Horizontal type of approved make including cost of all materials, labour and HOM of equipment with all leads compleate as per specification.(PWD SR 15-16, P-93, It-13.55)								
	Nos	5				5.00	1609.20	8046.00	
11	Supplying and fixing 50mm GI Union.(PWD SR 2015-16, P-XXXVII)								
	Nos	5				5.00	223.70	1118.00	
12	Supplying and fixing 50mm GI Elbow. (PWD SR 2015-16, P-XXXVII)								
	Nos	5				5.00	122.00	610.00	
13	Supplying and fixing 50mm GI Nipple. (PWD SR 2015-16, P-XXXVII)								
	Nos	5				5.00	104.30	521.00	
14	Supplying and fixing 50mm heavy duty GI Collars. (PWD SR 2015-16, P-XXXVII)								
	Nos	5	50			250.00	100.00	25000.00	
15	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adarsh / GK Controls best indigenouse make combined energy meter cum control panel board unit of size 1200x600x350 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3ph, 50 Hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 volts AC supply shall be consists etc, complete the panel board shall be consists etc., complete the panel board shall be fabricated on single unit in the above components panel board for suitable pumpset with Star Delta Starter out door type 10 HP to 15 Hp								
	Nos	5				5.00	14800.00	74000.00	
16	Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm ia nominal bore with fittings (medium grade weight 1.27 Kg/mtr) B class including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.8 (P-90, It.13.15, PWD SR:2015-16)								

		Rmt	5	290		1450.00	465.48	674946.00
17	Erection of combined panel board and meter unit with necessary materials & labour including providing cement concrete foundation bed concrete door type etc complete. (CE (m) BWSSB, Letter No.BWSSB/CE (M)/ACE(M)-2/TA-8/9194/2008-2009 dated 21/1/09.							
		Nos	5			5.00	425.00	2125.00
18	Supplying of TPST with rewireable porcelain channels in SM encloser Made out of 14 SWG Powder coted paint of approved colour 32 amps Group A (PWD Electrical SR 2014-15, P-51, It-6.5.1)							
		Nos	5			5.00	1868.00	9340.00
19	Supplying and fixing 20"x20"x2.5" polished wood board made up not less than 15cm thick plank with front plank one end provided for holding at other end fixing the same of the valve using through bolts and nuts [PWD Electrical SR 2014-15, P-51, It-6.6.6)							
		Nos	5			5.00	302.00	1510.00
20	Supplying & Fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC [PWD electrical SR 2010-11, P-40, It-34(b)]							
		Nos	5			5.00	430.00	2150.00
21	Wiring for lighting/ power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of Group A. 4 Sqmm. (PWD Ele SR 2010-11, P-9, It-20.2(d)							
		Mts	5	35		175.00	42.10	7367.00
22	Fixing a shunt capacitor upto 5 KVAR capacity with necessary clamps, bolts and nuts on existing wooden or metal board including banking of more than one capacitor. (PWD Ele SR 2010-11, P-30, It-15(a)							
		Each	5	3		15.00	120.00	1800.00
23	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts with provision for fixing suitable type capacity MCB's single phase/3 Phase/ single door with powder coated painting. Made out of 14 SWG M.S enclosure. 12 Way SP & N (PWD Ele SR 2014-15, P-54, It-6.16.5)							
		Nos	5			5.00	1047.00	5235.00
24	Supplying and fixing wiring, earth electrode for grounding conduits IC Cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI Pipe 2.5 Mtr long buried in a pit..... The pit should be filled with equal proportion of salt and charcocoal 150mm alround the pipe to complete depth. The connections from the pipe to the conduit etc, is to be established though GI Wire of size as per ISI Specification 7.3.3 of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 122 mm dia. (PWD Ele SR 2014-15, P-62, It-7.1)							
		Nos	5			5.00	2727.00	13635.00
25	Supplying Fully automatic Star delta starter unit push button type with suitable wires 3 Contractors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400 /440 volts phase and wired after fixing to the existing wooden board for motor Group A ,II above 15 HP up to 25 HP (PWD Ele SR 2014-15, P-51, It- 6.2.1)							
		Each	5	5		25	6583.00	164575.00
26	Supplying and fixing Class-A (Medium duty) -GI pipe wall thickness not less than 3.25mm on pole/wall/Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 65mm (PWD Ele SR 2014-15, P-68, It-7.12.3)							

		Mtr	5	6.00			30.00	585.00	17550.00
27	Supplying laying of 1.1 KV class L.T.U.G Cable having aluminium conductor PVC insulated extruded inner sheathed galvanised steel strip (except 2C x 10 Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554, Part-1:1988 & confirming to the attached GTP of Group A 3.5 core to 25Sqmm (PWD Ele SR 2014-15, P.No.62, It- 7.4.5)								
		Mtr	5	30.00			150.00	165.60	24840.00
28	Labour charges for Laying of 1.1 KV Class UG cable 6 Sqmm to 16 sqmm (PWD Ele SR 2014-15, P-68, It-7.8.1)								
		Mts	5	30.00			150.00	10.80	1620.00
29	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating in Hard soil etc., complete. complete as per specifications and direction of the Engineer-in-Charge (PWD Electrical SR 2014-15, P-68, It-7.9.2)								
		Mtr	5	25.00			125.00	106.00	13250.00
30	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compound complete. With terminals, clamps, bolts nuts and washers etc.complete for 16 Sqmm as per specification (PWD Ele SR 2014-15, P-69, It-7.13.2)								
		Each	5	5			25.00	280.00	7000.00
31	Supplying and fixing Porcelain fuse channel with cut out on the existing wooden block & wiring complete 32 amps (PWD Ele SR 2014-15, P-52, It-6.7)								
		Nos	5	3			15.00	180.00	2700.00
32	Earth work excavation for foundation of building water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications.(Page No.5, Item No. 2.4)								
	New Pipe line		5	240.00	0.60	0.90	648.00		
		Cum				Total	648.00	299.98	194387.00
33	KSRB13-9.3 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.2 / 13.9(PWD SR 2015-16, P-93, It -13.67)								
	25 mm outer dia	Mts	5	240.00			1200.00		
						Total	1200.00	124.20	149040.00
34	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(P-6, It -2.11)								
	75% Qty vide item No 34	Cum					486.00	80.56	39152.00
35	Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (PWD SR 2015-16, P-133, It.17.1)								
	Balance Qty Vide Item No.32						162.00		
		Cum					162.00	457.92	74183.00

33	Erection of pumping machineries PRE SR 12-13 pg 51/10.3.20	No	5.00	900.00	4500.00
34	KPTCL Deposit charges	L/S	5	5.00	13300.00
35	Borewell registration charges per Rs 1000 each for BWSSB		5.00	1000.00	5000.00
				Sub Total	3662525.00
36	KRIDL Charges 8 + 1%				329627.00
37	Miscellaneous and unforeseen Charges				7848.00
					1480
					2442500
				TOTAL	4000000.00
Rs. Forty Lakhs Only					

CERTIFICATE:-

- 1 The Work spot has been inspected and the work is found to be necessary
- 2 The Estimate is prepared as per the PWD SR 2015-16
- 3 The Provision made in estimate are adequate and essential.
- 4 This area comes under BBMP limits.

Ravi N.K.
Assistant Engineer
Ward-12

[Signature]
Asst. Exeutive Engineer
Shettyhalli Sub-division
BBMP, Bangalore

[Signature]
Exeutive Engineer
Dasarahalli division
BBMP, Bangalore

ನಂ. JCL/D/AS/PRI/103/16-17 ದಿನಾಂಕ : 22/3/17
ರೂ. 40.00 lakhs only (Rupees
forty lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
[Signature]
ಜಂಟಿ ಆಯುಕ್ತರು
ಪ್ರಾ.ಪಂ. ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. CE/75/26/17-18 ದಿನಾಂಕ : 19/6/2017
ರೂ. 40.00 lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
[Signature] ಮುಖ್ಯ ಅಭಿವೃದ್ಧಿ ಅಧಿಕಾರಿ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಸಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.